


Bibliografía de la Geología de Guatemala 1966 - 1983

Compilada por

**Samuel Bonis
S. Maité Bonis
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Dartmouth College

CIRMA
CENTRO DE INVESTIGACIONES
REGIONALES DE MESOAMÉRICA

La Antigua Guatemala

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A la memoria de *Guillermo Swezey* de CIRMA
– una inspiración al saber guatemalteco
y a la investigación multidisciplinaria.

To the memory of *William R. Swezey* of CIRMA
– an inspiration to Guatemalan scholarship
and multidisciplinary research.

INTRODUCTION

Two bibliographies of Guatemalan geology have been previously published:

Maldonado - Koerdell, M.

1958 *Bibliografía Geológica y Paleontológica de América Central*: Instituto Panamericano de Geografía e Historia Pub. 204, México, D.F.

Instituto Geográfico Nacional

1966 *Bibliografía Geológica de Guatemala, América Central* (up to 1965).

Several factors have given a great impetus to the volume of material published on the geology of Guatemala since 1965. A collaborative geological mapping program between the Instituto Geográfico Nacional (now Instituto Geográfico Militar) and U.S. universities has produced numerous theses, maps and subsequent investigations by both professors and students, which has continued as former students themselves became professors. Continuous and varied volcanic activity in relatively accessible areas has served as a stimulus for research in volcanology and allied fields. The disastrous 1976 earthquake focused worldwide attention on Guatemala from many disciplines. And the Deep Sea Drilling Project in the Middle America Trench offshore Guatemala has generated numerous publications. Unfortunately, almost nothing of the considerable petroleum exploration effort has been published.

For abbreviations in the text that possibly might not be clear we have included an explanatory listing. The series of numbers in the citations represent in order: volume, number and page. For example: 10, 12, 36-40 indicate vol. 10, no. 12, p. 36-40. In the case of multi-authored publications, we have cited all the authors individually in their respective alphabetical order, with cross-reference to the complete citation listed under the first author.

Hispanoil Guatemala, Elf Aquitaine Guatemala, and the Kresge Physical Sciences Library of Dartmouth College supplied numerous courtesies that have significantly reinforced our bibliographic research. The Department of Earth Sciences at Dartmouth College provided

manuscript preparation services and printed a draft of this volume. Many colleagues made corrections and additions to the preprint that have greatly enhanced its completeness. We wish to thank them all for their gracious help.

Stephen R. Elliott of CIRMA made valuable editorial improvements, provided the innovative cross-referencing by author, and prepared the volume for publication.

Samuel Bonis
S. Maité Bonis
Nola R. Bonis

Guatemala City and
Hanover, New Hampshire
August, 1985

INTRODUCCION

Dos bibliografías geológicas de Guatemala han sido publicadas con anterioridad:

Maldonado - Koerdell, M.

1958 *Bibliografía Geológica y Paleontológica de América Central*: Instituto Panamericano de Geografía e Historia Pub. 204, México, D.F.

Instituto Geográfico Nacional

1966 *Bibliografía Geológica de Guatemala, América Central* (hasta 1965).

Varios factores han contribuido al gran incremento de material publicado sobre la geología de Guatemala desde 1965. Un programa colaborativo de mapeo geológico entre el Instituto Geográfico Nacional (hoy Instituto Geográfico Militar) y universidades norteamericanas ha dado como resultado numerosas tesis, mapas e investigaciones posteriores. Estas investigaciones han perdurado en la medida que los otrora estudiantes han ascendido a la posición de profesores universitarios. La actividad volcánica continua y variada en zonas relativamente accesibles ha estimulado investigaciones en vulcanología y campos afines. El desastroso terremoto de 1976 en Guatemala atrajo atención mundial por parte de muchas disciplinas. El Deep Sea Drilling Project en la Fosa Mesoamericana, aguas afuera de Guatemala, ha producido numerosas publicaciones. Desafortunadamente, se ha publicado poco sobre el intenso esfuerzo para la exploración petrolera.

Hemos incluido una lista de equivalencias de abreviaturas para aclarar posibles confusiones en el texto. La serie de números en las citas representa, en el orden correspondiente: volumen, número de tomo, número de página. Por ejemplo, 10, 12, 36-40 indican vol. 10, no. 12, p. 36-40. En los casos de publicaciones con más de un autor, hemos citado a todos los autores individualmente en su respectivo lugar, con referencia cruzada a la entrada completa bajo el primer autor.

Hispanoil Guatemala, Elf Aquitaine Guatemala, y Kresge Physical Sciences Library de Dartmouth College nos prestaron valiosa asistencia que promovió considerablemente nuestras investigaciones biblio-

gráficas. El Department of Earth Sciences de Dartmouth College proporcionó ayuda con la preparación del manuscrito e imprimió un borrador de este volumen. Muchos colegas hicieron correcciones y adiciones al borrador que en gran medida ayudó para que fuera más completo. Queremos agradecer a todos ellos su ayuda tan amable y desinteresada.

Stephen R. Elliott de CIRMA dio valiosos consejos editoriales, elaboró el sistema de referencias cruzadas por autor y preparó el volumen para su publicación.

Samuel Bonis
S. Maité Bonis
Nola R. Bonis

Ciudad de Guatemala y
Hanover, New Hampshire
Agosto de 1985

ABREVIATURAS - ABBREVIATIONS

- AAPG*: American Association of Petroleum Geologists
Abs.: Abstract; Resumen
Abs. Prog.: Abstracts with program
Am. Antiquity: American Antiquity
Am. Inst. Min. Metall., and Pet. Eng., Soc. Min. Eng.: American Institute of Mining, Metallurgical and Petroleum Engineers, Society of Mining Engineers
Am. Jour. Sci.: American Journal of Science
Am. Mineral.: American Mineralogist
Am. Phil. Soc.: American Philosophical Society
Am. Soc. Photogramm.: American Society of Photogrammetry
Ann. Mtg.: Annual Meeting ; Reunión Anual
Asoc. Mex. Geol. Petroleros: Asociación Mexicana de Geólogos Petroleros
Beih. Geol. Jahrb.: Beihefte Geologische Jahrbuch
Berlin. Geowiss. Abh.: Berliner Geowissenschaftliche Abhandlungen, Reihe A
Bull: Bulletin
Bull. Volc.: Bulletin Volcanologique
Bull. Centre Rech. Pau, SNPA: Bulletin du Centre de Recherches de Pau, Société Nationale des Pétroles d'Aquitaine
Bull. suisse de Minéral. Pétrogr.: Bulletin suisse de Minéralogie et Pétrographie
Calif. Univ. Pub. Geol. Sci.: University of California Publications in Geological Sciences
Can. Soc. Petrol. Geol.: Canadian Society of Petroleum Geologists
Carib. Geol. Conf.: Caribbean Geological Conference
Congr. Latinoam. Geol.: Congreso Latinoamericano de Geología
Conn. Acad. Arts Sci. Mem.: Memoir of the Connecticut Academy of Arts and Sciences
Contrib. Mineral. Petrol.: Contributions to Mineralogy and Petrology
C.R. Acad. Sci. Paris: Comptes-Rendus Academie des Sciences, Paris
Deutsch. Akad. Naturforsch.: Deutsche Akademie Naturforschung
Dissert. Abs.: Dissertation Abstracts (Ann Arbor, Michigan)
DSDP: Deep Sea Drilling Project, Washington, D.C., (U.S. Government Printing Office)
Earth Planetary Sci. Lett.: Earth and Planetary Science Letters

Econ. Geol.: Economic Geology
Engin. Min. Jour.: Engineering and Mining Journal
EOS: Transactions of the American Geophysical Union
Geochim. Cosmochim. Acta: Geochimica et Cosmochimica Acta
Geof. Intl.: Geofísica Internacional
Geol. Assoc. Canada: Geological Association of Canada
Geol. en Mijnbouw: Geologie en Mijnbouw
Geol. Jahr.: Geologische Jahrbuch, Reihe B.
Geol. Rdsch.: Geologische Rundschau
Geol. Soc. London Spec. Pub.: Geological Society of London Special Publication
Geophys. Res. Letters: Geophysical Research Letters
Geosci. Canada: Geoscience Canada
GSA: Geological Society of America
Gulf Coast Assoc. Geol. Soc. Trans.: Transactions of the Gulf Coast Association of Geological Societies
ICAITI Pub. Geol.: Instituto Centroamericano de Investigación y Tecnología Industrial Publicaciones Geológicas, (Guatemala)
IGN: Instituto Geográfico Nacional, Guatemala
INSIVUMEH: Instituto Nacional de Sismología, Vulcanología, Meteorología e Hidrología, (Guatemala)
Inst. Geol. Sci. Counc. Overseas Mem.: Institute of Geological Sciences Council Overseas Memoir (London)
Int. Assoc. Volcano. and Chem. Earth's Int.: International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI)
Intl. Geol. Cong.: International Geological Congress
Intl. Symp., (n.p. approx.): Simposio Internacional; páginas sin numeración, número aproximado de página
 International Symposium; no pagination, approximate page number
IUGG: International Union of Geodesy and Geophysics
Jour. Geol.: Journal of Geology
Jour. Geomag. Geoelectr.: Journal of Geomagnetism and Geoelectricity
Jour. Geophys. Res.: Journal of Geophysical Research
Jour. Geotech. Eng. Div., Am. Soc. Civil Eng.: Journal of Geotechnical Engineering Division, American Society of Civil Engineers
Jour. Paleontol.: Journal of Paleontology
Jour. Petrol. Geol.: Journal of Petroleum Geology

Jour. Volc. Geotherm. Res.: Journal of Volcanology and Geothermal Research
Mem.: Memoir
Min. Ann. Rev.: Mining Annual Review (Great Britain)
Mineral. Mag.: Mineralogical Magazine
MS Thesis: Tesis de Maestría (en Ciencias)
Münster. Forsch. Geol. Paläont.: Münstersche Forschungen zur Geologie und Paläontologie
Natl. Sci. Found.: U.S. National Science Foundation
n.p., approx.: Páginas sin numeración, número aproximado de página
 No pagination, approximate page number
Pan Amer. Inst. Geogr. Hist.: Instituto Panamericano de Geografía e Historia (México D.F.)
Ph.D. Thesis: Tesis de Doctorado
Quat. Res.: Quaternary Research
Schweiz. Miner. Petrog. Mitt.: Schweizerische Mineralogische und Petrographische Mitteilungen
Soc. Econ. Paleont. Mineral. Spec. Pub.: Society of Economic Paleontologists and Mineralogists Special Publication
Soc. Geol. Mex. Bol.: Boletín Sociedad Geológica Mexicana
Soil Sci. Soc. Am. Proc.: Proceedings of the Soil Science Society of America
Spec. Pap.: Special Paper
Spec. Pub.: Special Publication
SSA: Seismological Society of America
Tschermaks Mineral. Petrog. Mitt.: Tschermaks Mineralogische und Petrographische Mitteilungen
Univ. Nac. Autón. México: Universidad Nacional Autónoma de México (UNAM)
U.S. Bur. Mines: United States Bureau of Mines
USGS Prof. Pap.: United States Geological Survey Professional Paper
Z. Deutsch. Geol. Ges.: Zeitschrift der Deutschen Geologischen Gesellschaft
Z. Geomorph. N.F. Suppl. Bd.: Zeitschrift für Geomorphologie Neue Folge Supplementbände
Zbl. Geol. Paläont.: Zentralblatt für Geologie und Paläontologie

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Chanmagua	BURKART, B. (1966)
Chiantla	BLOUNT, D.N. (1968)
Chimaltenango	KOCH, A.J., McLEAN, H. (1977)
Chiquimula	CLEMONS, R.E. (1966)
Ciudad de Guatemala	KOCH, A.J., McLEAN, H. (1977)
Cobán	PAULSEN, S. (1976)
Cubulco	BOOM, G., Van Den, MÜLLER, A., NICOLAUS, H. (1981)
Cuilapa	DARTMOUTH COLLEGE (1980)
Cuilco	BRADFORD, D.E., COLLINS, E.M., SIESSER, W.G. (1968)
Esquipulas	BURKART, B. (1966)
Huehuetenango	COLLINS, E.M., JOSEY, W.L., STEVENS, W.E. (1981)
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Nueva Santa Rosa	DARTMOUTH COLLEGE (1980)
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